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A.D. 1866, 27th JULY. N<sup>o</sup> 1950.

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S P E C I F I C A T I O N

OF

ALEXIS VICTOR MATHIEU.

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APPARATUS FOR IRRIGATING THE  
INTESTINES, VAGINA, &c.

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1867.







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A.D. 1866, 27th JULY. N° 1950.

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**Apparatus for Irrigating the Intestines, Vagina, &c.**

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**LETTERS PATENT** to Alexis Victor Mathieu, of No. 15, Passage des Petites Ecuries, in the City of Paris, in the Empire of France, Medical Doctor, for the Invention of “**AN IMPROVED APPARATUS FOR IRRIGATING THE INTESTINES, THE VAGINA, THE BLADDER, THE BRAIN, THE EYES, AND EYELIDS.**”

Sealed the 22nd January 1867, and dated the 27th July 1866.

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**PROVISIONAL SPECIFICATION** left by the said Alexis Victor Mathieu at the Office of the Commissioners of Patents, with his Petition, on the 27th July 1866.

I, ALEXIS VICTOR MATHIEU, of No. 15, Passage des Petites Ecuries, in the  
5 City of Paris, in the Empire of France, Medical Doctor, do hereby declare the nature of the said Invention for “**AN IMPROVED APPARATUS FOR IRRIGATING THE INTESTINES, THE VAGINA, THE BLADDER, THE BRAIN, THE EYES, AND EYELIDS,**” to be as follows:—

10 The apparatus is enclosed in a metal box provided with a receiver intended to hold the liquid and the mechanism serving to project this liquid. This mechanism consists of a pump worked by a vertical lever, a projection tube, and a discharge tube; the liquid passes by the first to effect the irrigation,



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and issues by the second ; these two holes are each provided with a screw ring, the inner thread of which is intended to fit on the screw thread of the corresponding joint of the various small apparatus, by the aid of which different irrigations are effected.

Great Intestinal Irrigation.—Any sort of vase containing the liquid to be 5 injected is placed a little above the apparatus and near the bedside of the patient, a syphon takes this liquid and conducts it into the reservoir, where its arrival is regulated by a stop-cock. The intestinal canula or clyster pipe being introduced, the pump of the apparatus is set at work by giving the lever an up-and-down movement, which it communicates to the piston of the 10 pump ; the liquid then arrives by the projection tube in the intestine, which it distends ; then the canula retakes it, and the discharge pipe, which follows this latter, deposits the liquid in a vase placed on the floor at the side of the bed. The irrigation is continuous or intermittent according as the stop-cock which ends the discharge pipe is always open or alternately open and 15 shut,

Vaginal Irrigation.—Great vaginal irrigation is effected in the same manner as the preceding, the canula alone being changed. If deemed necessary in intestinal and vaginal irrigation the canulas are held in position by the aid of two elastic bands, the one forming belt, to the back of which the other is 20 attached and from which it passes between the thighs, where it divides into two to fit better on to the canula, afterwards reuniting and being attached to the front of the belt by suitable buckles. In the various fluxes or discharges of women the medicinal liquid contained in the receiver of the box is conducted by the projection pipe into the organic parts, which hermetically close the 25 canula ; this liquid is retaken by this latter and the discharge pipe, the stop-cock of which replaces that of the syphon brings this liquid back into the receiver ; it is then a continuous come-and-go movement of the liquid.

Vesical Irrigation.—The probe being introduced into the bladder is fitted to 30 the projection and discharge pipes of the apparatus. The irrigation is then effected as for vaginal irrigation, a large quantity of liquid being also used or the same liquid as long as may be desired.

Cerebral Irrigation.—The hair being shaved off an india-rubber cap is pulled over the head down to the eyebrows, an elastic band firmly fixing its 35 border around the head. The projection and discharge tubes of the cap furnished with their joints are secured to the screw rings of the corresponding parts of the apparatus, and the syphon placed in a vase containing cold or even iced water feeds the apparatus.



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Oculo-palpebral Irrigation.—Here the ordinary tubes of the apparatus are replaced by two small projection and discharge tubes which are connected with an ocular basin or cup, designated from its shape the double gondola; this gondola is so arranged that it will serve for everybody, however far the 5 eyes may be apart, inasmuch as it may be lengthened or shortened at will. Wire gauze fitted to the screw ring of the projection pipe prevents any dirt getting to the eye. The irrigation may be effected largely or with the same liquid as long as may be desired.

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10 SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Alexis Victor Mathieu in the Great Seal Patent Office on the 25th January 1867.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ALEXIS VICTOR MATHIEU, of No. 15, Passage des Petites Ecuries, in the City of Paris, in the Empire of France, Medical Doctor, send greeting.

15 WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-seventh day of July, in the year of our Lord One thousand eight hundred and sixty-six, in the thirtieth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Alexis Victor Mathieu, Her special licence that I, the said Alexis 20 Victor Mathieu, my executors, administrators, and assigns, or such others as I, the said Alexis Victor Mathieu, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully 25 Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for “AN IMPROVED APPARATUS FOR IRRIGATING THE INTESTINES, THE VAGINA, THE BLADDER, THE BRAIN, THE EYES, AND EYELIDS,” upon the condition (amongst others) that I, the said Alexis Victor Mathieu, my executors or administrators, by an instrument in writing under my or their hands and seals, should par- 30 ticularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Alexis Victor Mathieu, do hereby 35 declare the nature of my said Invention, and in what manner the same is



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to be performed, to be particularly described and ascertained in and by the following statement, reference being had to the accompanying Sheets of Drawing forming part of this my Specification, and to the figures and letters of reference placed thereon :—

The apparatus is enclosed in a metal box provided with a receiver intended 5 to hold the liquid, and the mechanism serving to project this liquid. This mechanism consists of a pump worked by a vertical lever, a projection tube, and a discharge tube; the liquid passes by the first to effect the irrigation, and issues by the second; these two tubes are each provided with a screw ring, the inner thread of which is intended to fit on the screw thread of the 10 corresponding joint of the various small apparatus, by the aid of which different irrigations are effected.

Great Intestinal Irrigation.—Any sort of vase containing the liquid to be injected is placed a little above the apparatus and near the bedside of the patient, the intestinal canula is inserted, and the action is as follows:—The 15 syphon O (Figure 5) takes this liquid and conducts it into the reservoir S; (Figures 1 and 2) of the box, where its arrival is regulated by the stop-cock M (Figures 1, 3, and 5). The intestinal canula or clyster pipe being introduced, the pump of the apparatus is set at work by giving to the lever E (Figures 1 to 5) an up-and-down movement, which it communicates to the piston B 20 (Figures 2 and 3); the liquid then arrives by the projection tube J (Figures 1, 4, 5,) in the intestine, which it distends; then the canula retakes it, and the discharge pipe, which is a continuation of this latter, deposits the liquid in a vase placed on the floor at the side of the bed. The irrigation is continuous or intermittent, this depending upon whether the stop-cock 25 which ends the discharge pipe is always open or alternately open and shut; in this manner from 17 to 35 quarts of liquid may be hourly passed into the intestine of the patient, in fact it is internal hydrotherapy.

Vaginal Irrigation.—Great vaginal irrigation is effected in the same manner as the preceding, the canula alone being changed. If deemed necessary in 30 intestinal and vaginal irrigation the canulas are held in position by the aid of two elastic bands, the one forming belt, to the back of which the other is attached, and from which it passes between the thighs, where it divides into two to fit better on to the canula, afterwards reuniting and being attached to the front of the belt by suitable buckles. In the various fluxes or discharges 35 of women the medicinal liquid contained in the receiver S of the box is conducted by the projection pipe into the organs of the female, which hermetically close the canula; this liquid is retaken by this latter and the discharge pipe, the stop-cock of which replaces that M of the syphon brings this liquid back



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into the receiver S; it is then a continuous come-and-go movement of the liquid. Half an hour of irrigation thus effected is quite equal to 50 injections by the aid of the means in actual use. Pure or slightly astringent water may thus be applied daily for purposes of cleanliness.

5 Vesical Irrigation.—The probe being introduced into the bladder is fitted to the projection and discharge pipes of the apparatus. The irrigation is then effected as for vaginal irrigation, a large quantity of liquid being also used or the same liquid as long as may be desired.

Cerebral Irrigation.—The hair being shaved off an india-rubber cap is  
10 pulled over the head down to the eyebrows, an elastic band firmly fixing its border around the head. The projection and discharge tubes of the cap furnished with their joints are secured to the screw rings of the corresponding parts of the apparatus, and the syphon placed in a vase containing cold or even iced water feeds the apparatus. With irrigation thus practised the water  
15 arrives directly on the hairy skin, and, further, it is continually in motion, by entering and leaving, which causes still greater cooling.

Oculo-palpebral Irrigation. (Eye Irrigation).—Here the ordinary tubes  
of the apparatus are replaced by two small projection and discharge tubes, which are connected with an ocular basin or cup designated from its shape  
20 the double gondola; this gondola is so arranged that it will serve for everybody, however far the eyes may be apart, inasmuch as it may be lengthened or shortened at will. The apparatus should either be new or cleaned with the greatest care, wire gauze fitted to the screw ring of the projection pipe prevents any dirt getting to the eye. The irrigation may be effected largely or with the  
25 same liquid as long as may be desired.

## DESCRIPTION OF THE DRAWINGS.

Sheet 1, Figure 1, elevation of the apparatus. R, cover or lid; S, box containing the liquid and the mechanism; M, cock for admission of the liquid; J, projection of liquid; E, lever for working the pump. Figure 2,  
30 section at A, B. Figure 3, S, receiver containing the liquid, arriving by M (see Figure 5, which is a section at C, D, Figure 3); U, valve working beneath the piston; B, piston; D, leather packing; G, spherical valve; H, air receiver. Figure 3, top plan view with lid removed; M, cock for entrance of liquid; N, screw-running ring mounted on the inlet pipe T; B,  
35 piston (see Figure 2); A, pump cylinder; E, working lever (see Figures 1 and 2); C, moveable axle of the piston rod; Q, cheeks holding the head of the lever E (see sections Figures 2 and 5). Figure 4, bottom plan view; A, bottom of pump cylinder; F, pipe putting the cylinder and the air receiver



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in communication (see section, Figure 2); H, air receiver (see Figures 2 and 5); J, projection pipe (see Figure 5).

Sheet 2, Figure 5, section at C, D, Figure 3. J, liquid escaping from the receiver H; L, pipe on which is to be mounted the small apparatuses, by which different irrigations are practised; N, screw-threaded running joint ring serving for the entrance of the liquid into the apparatus by the syphon O; D, conduit pipe; P, mouth for water supply, forming base of pipe T.

Figure 6, ordinary canula or clyster pipe; Figure 6\*, section of same.

Figure 7, intestinal irrigation apparatus; A, intestinal canula; B, running joint ring; D, openings for re-entrance of the injected liquid into the canula. In the longitudinal section, Figure 7, C indicates the pipe for projection of the liquid, and E the discharge pipe. Figure 8, section at A, B, Figure 7.

Vaginal Irrigation.—Figure 9, section of canula; F, vaginal canula made of caoutchouc; G, metal conduit for entrance and discharge (see Figure 7 for the principle of the inlet and exit). Figure 10, elevation of apparatus, Figure 9.

Vesical Irrigation.—Figure 11, longitudinal section (probe for female; Figure 12, section at A, B, Figure 11; Figure 13, elevation of probe for female; Figure 14, section of probe for female; Figure 15, section at C, D, Figure 14; Figure 16, elevation of probe for female.

Oculo-palpebral Irrigation.—Figure 17, elevation of the double gondola furnished with two joint tubes; Figure 18, plan view of a gondola; and Figure 19, section of the double gondola; H, projection pipe opening in I; J, discharge pipe leading from K.

Cerebral Irrigation.—Figure 20, elevation of the india-rubber cap; L, pipe by which the liquid arrives; M, discharge pipe; N, elastic band fixing the cap at O; Figure 21, section of said cap.

The Figures 1\*, 2\*, and 3\*, (Sheet 1), represent a double gondola arranged so as to serve successively for oculo-palpebral or eye irrigation of various persons, whatever distance their eyes may be apart.

Figure 1\*, plan view of double gondola; H, gondola or ocular basin; G, pipe for discharge of the liquid, ending also in a sliding ring fixing on the joint of the projection pipe of the box of the apparatus; the interior of this ring is furnished with a small wire gauze. Figure 2\*, metal part uniting the two gondolas; C, hollow cylinder dividing at X, where it is solid, into two similar parts J, K, joining on to the two faces of the gondola at O (see Figure 1\*), and permitting the gondola to execute rotary movements from



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the inside, outwards, or vice versa; D, cylindrical metal rod which may be pushed in or out of the cylinder C at will, and be fixed in the position required by the press screw R; S, point at which the rod S divides into a fork. The branches K join on to the gondola at O (see Figure 1\*). Figure 3\*, 5 section at A, B, of a gondola (Figure 1\*); F, entrance of the liquid; G, discharge pipe for liquid; M, opening, which may in case there is but one diseased eye be stopped with a cork in order to intercept the circulation of the liquid in the gondola which is not required for the irrigation.

In witness whereof, I, the said Alexis Victor Mathieu, have hereunto set my hand and seal, this Twenty-first day of January, in the year of our Lord One thousand eight hundred and sixty-seven.

A. V. MATHIEU. (L.S.)

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1867.



at your school but I have not been able to find any more of the  
same kind of things. I have been looking for them for some time  
and I have not been able to find any more of the same kind of  
things. I have been looking for them for some time and I have not  
been able to find any more of the same kind of things. I have been  
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have not been able to find any more of the same kind of things.

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A.D. 1866, JULY 27, N°1950,  
MATHIEU'S SPECIFICATION.

FIG. 2.

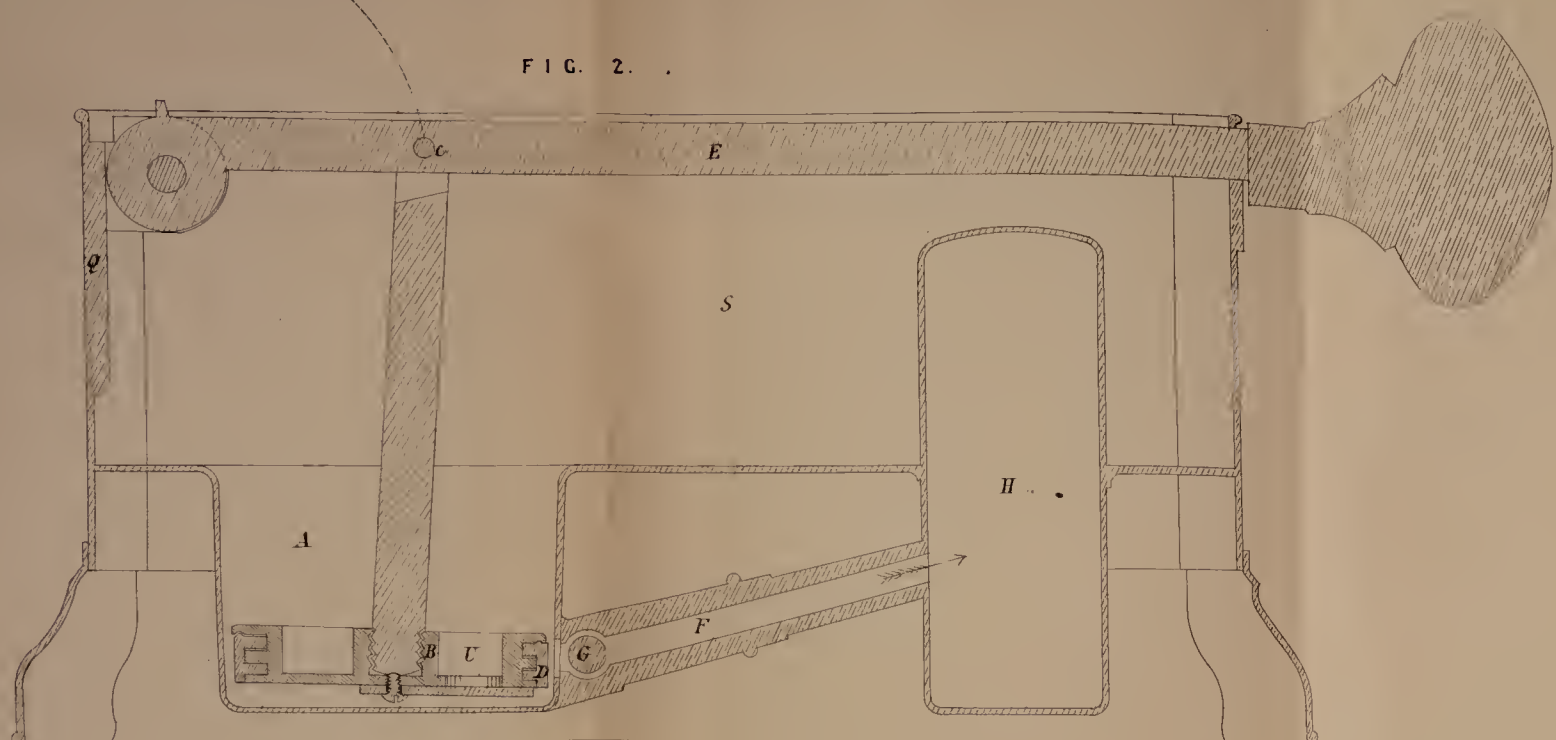


FIG. N° 3.\*

Section at A.B. of  
a Gondola FIG. 1.

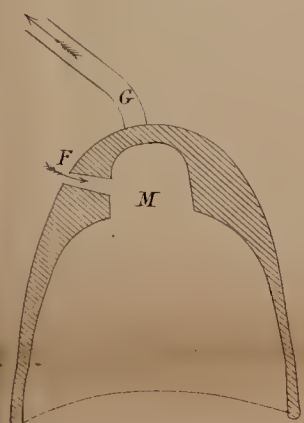


FIG. N° 1.\*

Plan of the double Gondola  
(Gondola of India Rubber)

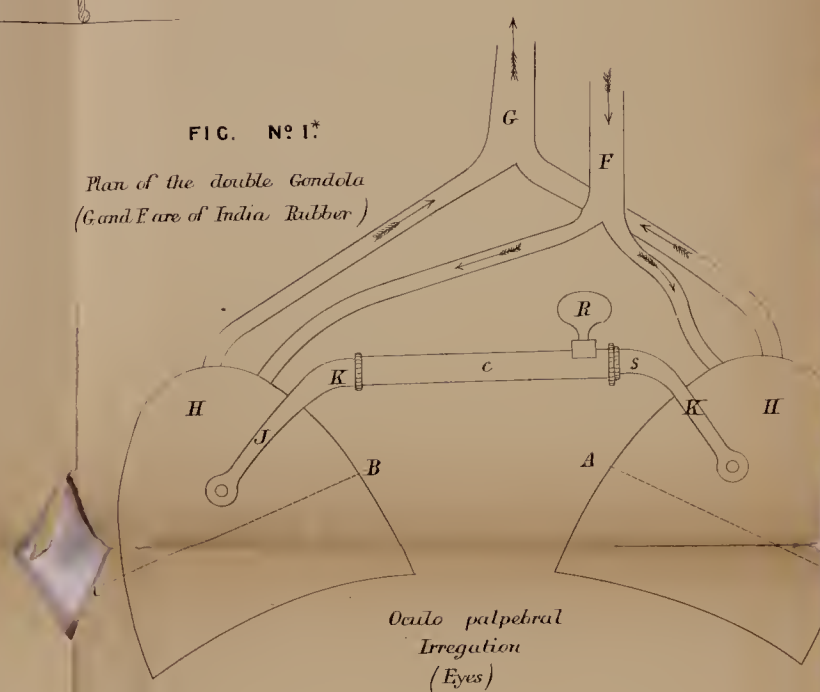


FIG. 1.

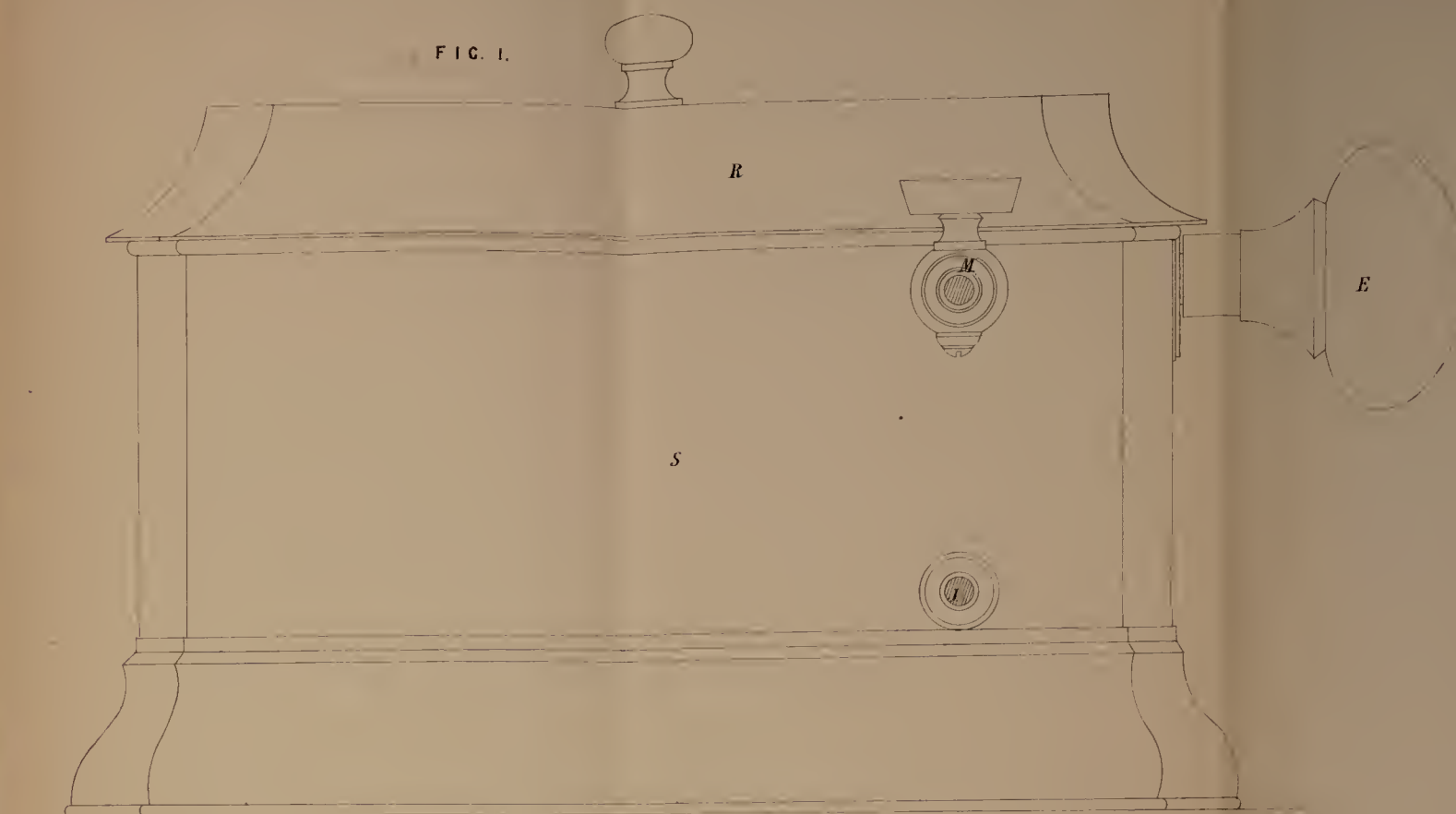


FIG. 2.\*

Metal piece uniting the two  
Gondolas

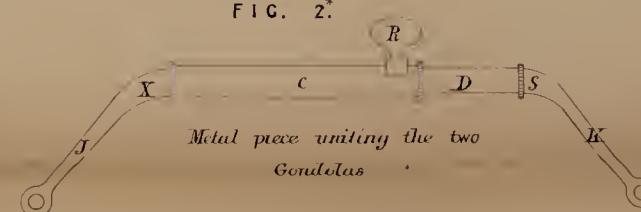


FIG. 3.

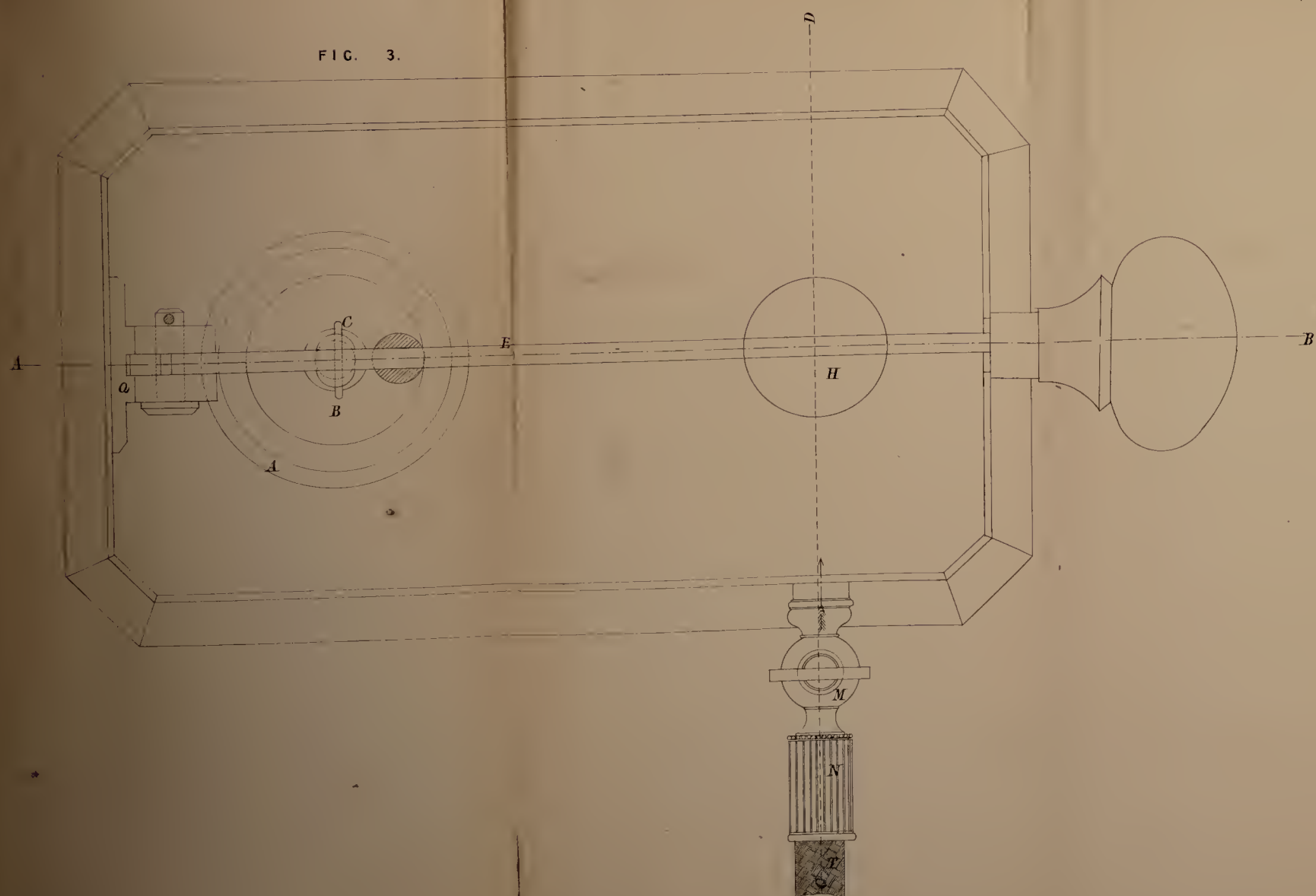
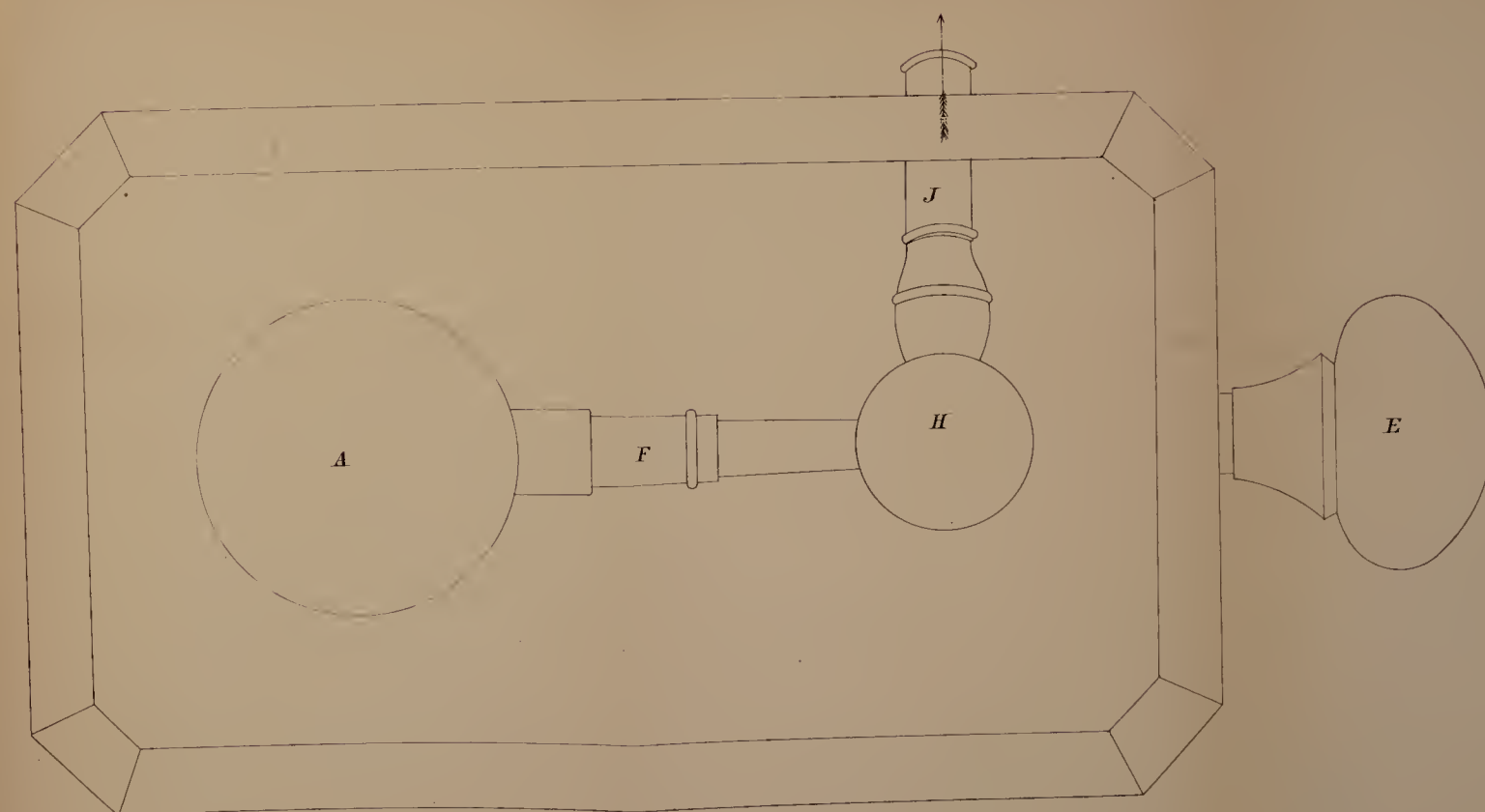
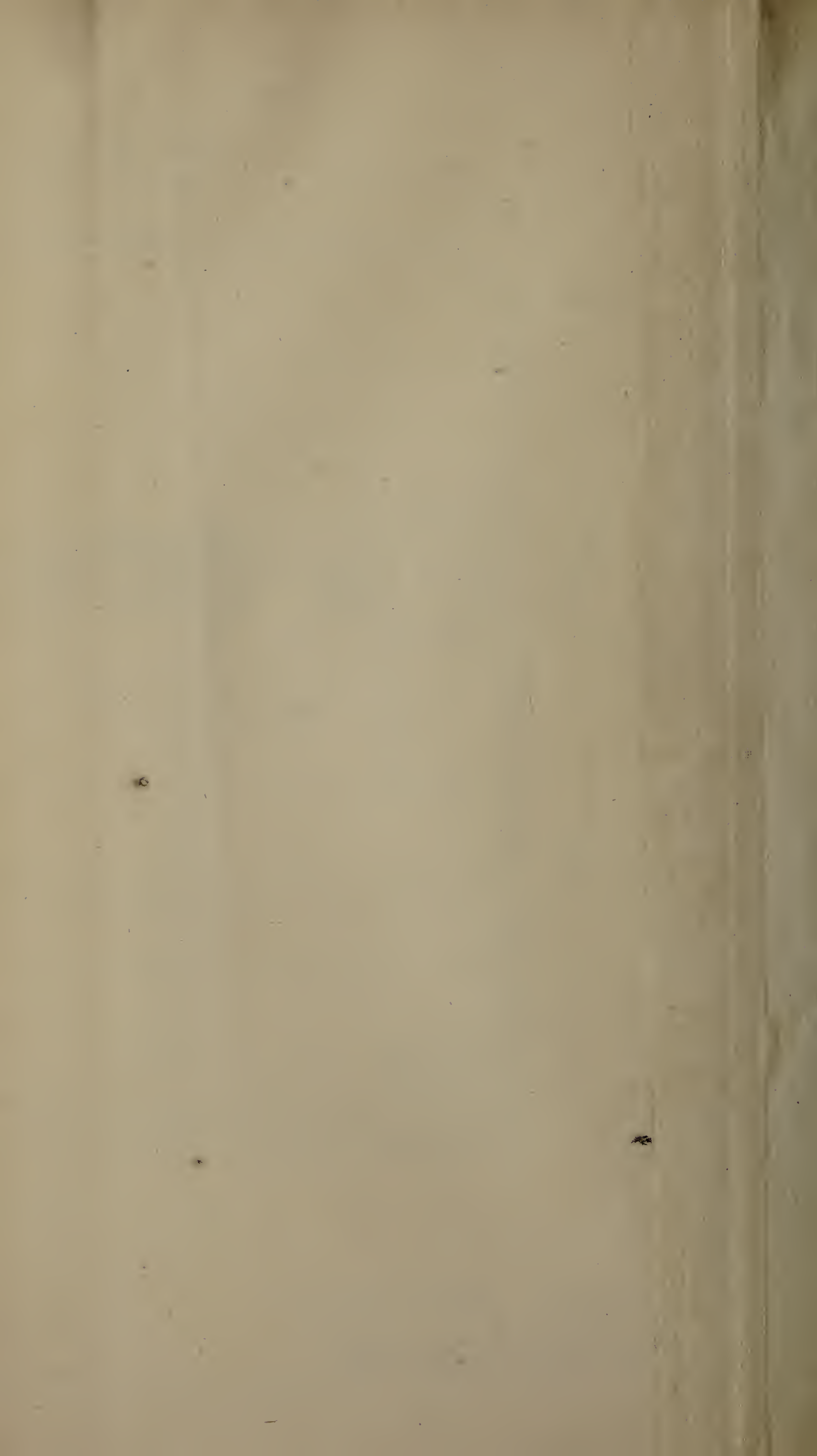


FIG. 4.



The filed drawing is partly colored







Section at C D.

FIG. 5.

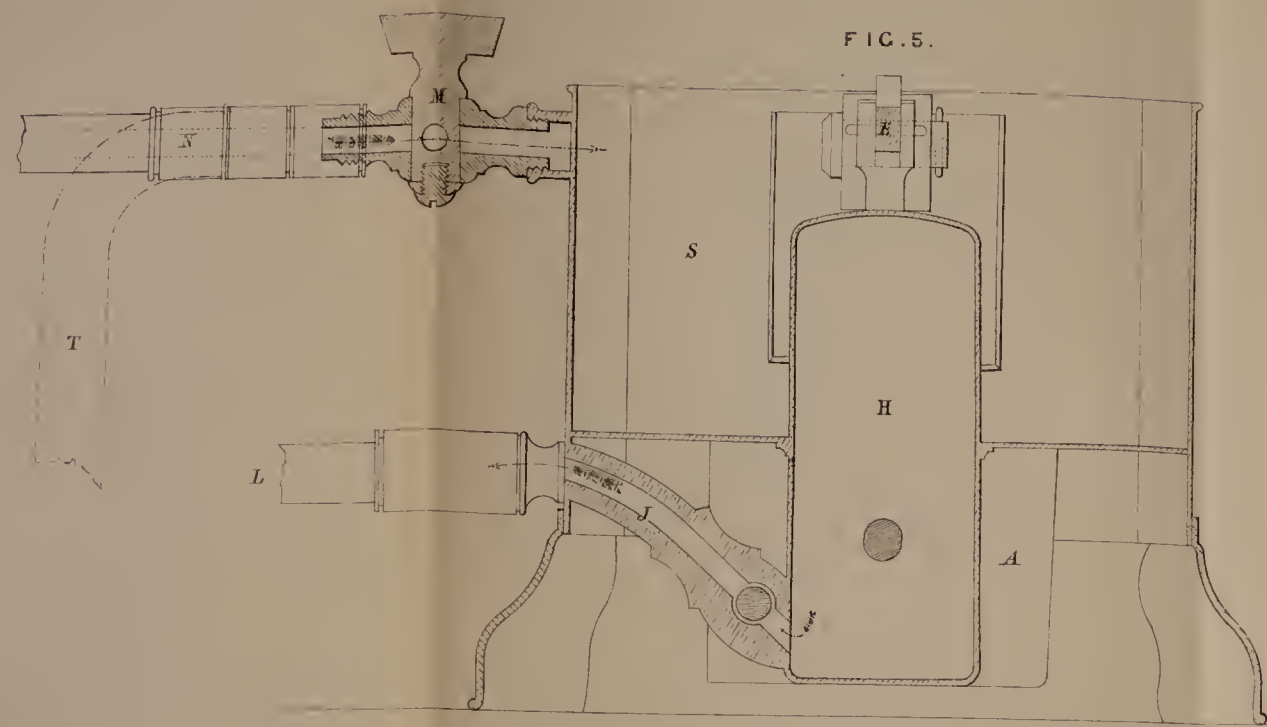


FIG. 6.

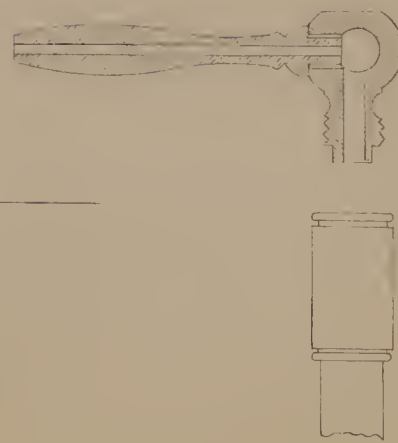
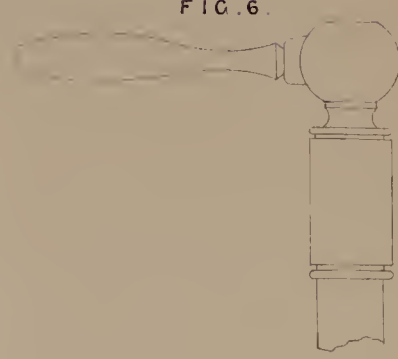


FIG. 7.

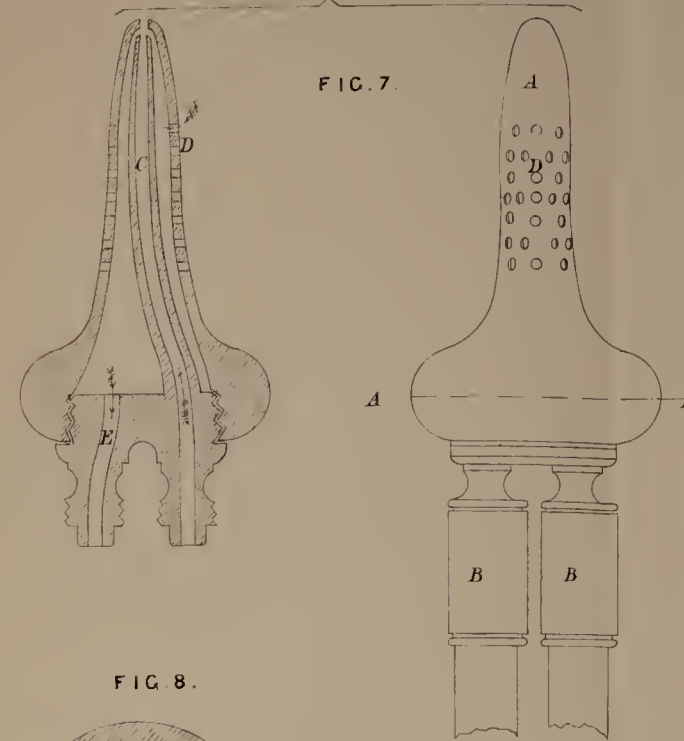


FIG. 8.

Section at AB.

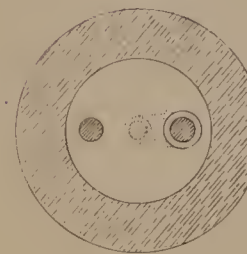


FIG. 18.



FIG. 9.

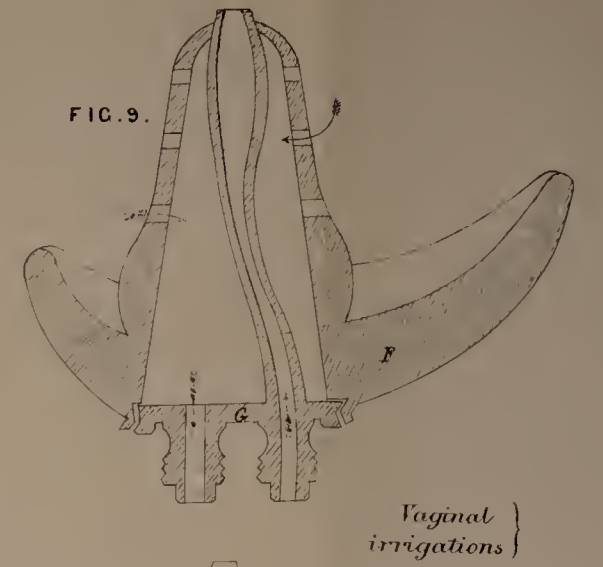


FIG. 10.

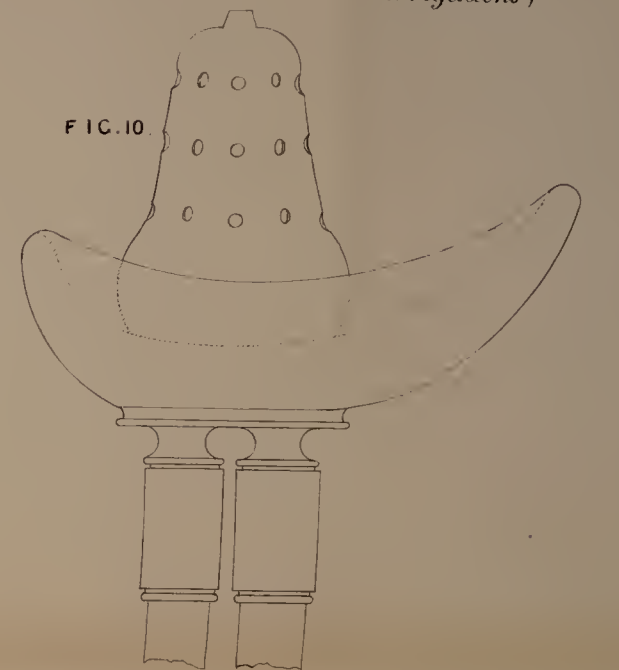


FIG. 11.

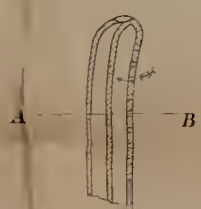


FIG. 12.

Section at AB.



FIG. 14.

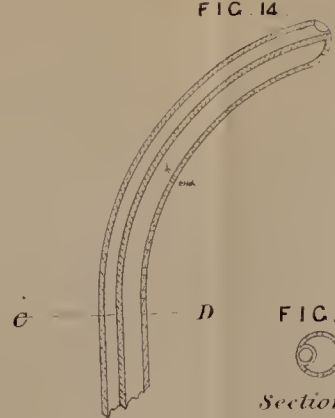


FIG. 16.

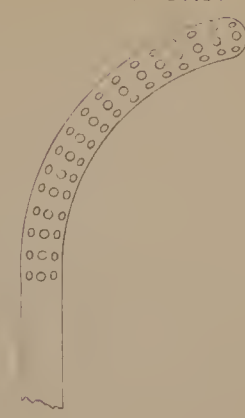


FIG. 15.

Section at CD.

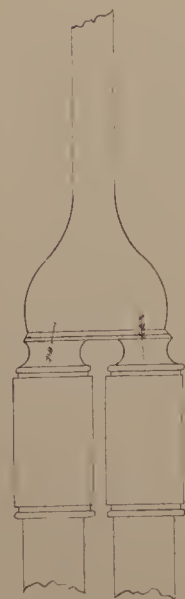
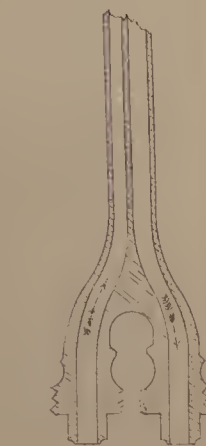
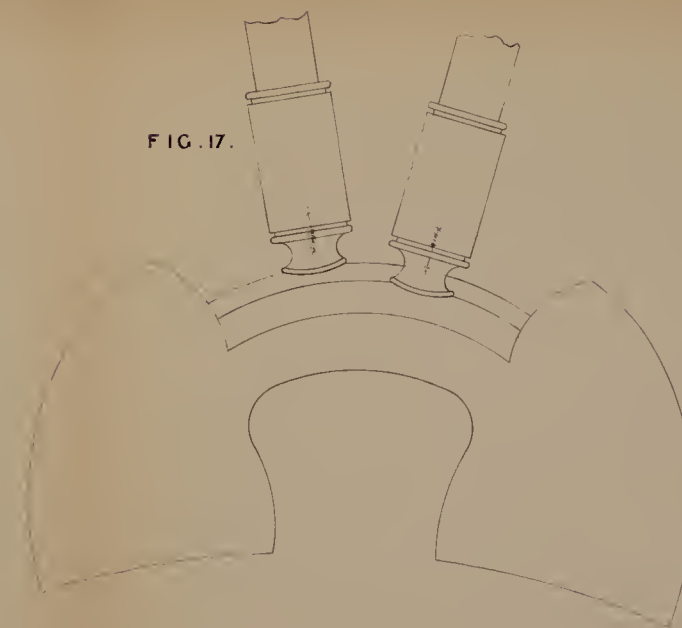


FIG. 17.



Oculo palpebral.  
irrigation.

FIG. 19.

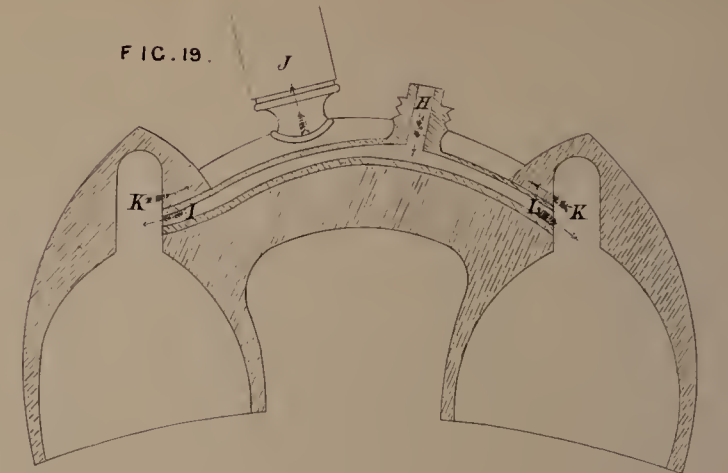


FIG. 20.

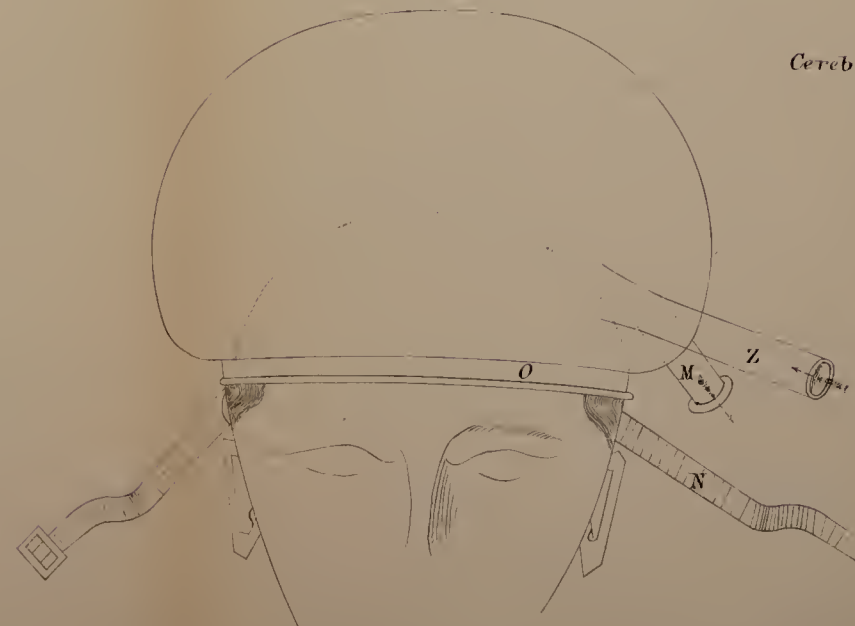


FIG. 21.

Cerebral irrigation.

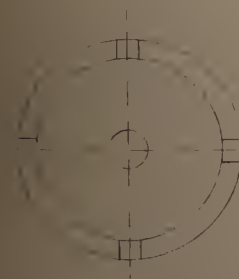
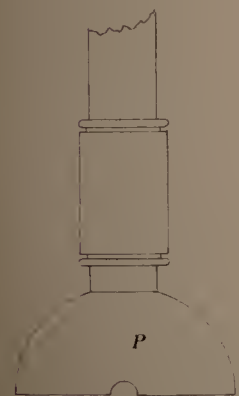
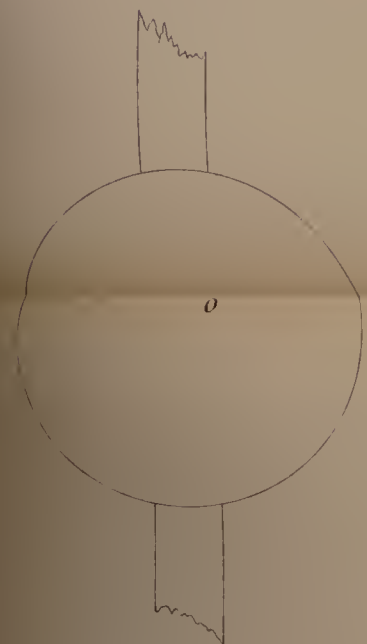


FIG. 13.

